RIO Page No.
Date / /

SBR No : 055033/22-23
Date : 29/9/2022

BR No : 000033/22 23
Date : 29/9/2022

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works)

Sub-Division: Electricals

No. 1st & Final bill
Division: Electricals
Bill Received No.
Dated
Date.....2010
Divisional
Sub Divisional
Schedule Docket No.
D.R.No
Cash Book Voucher No..... Dated.....
JOB NO 12-22-000002
Head of Account : P 0973 Lighting of Parks,Toilet Amenities

Name of Work :- *Rsplacemnt of burntout UG cable panel boards and its accessories coming under Dasarahalli Zone ward no 12,13,14,15.*

Name of Contractor and Full Address:-m/s Chethan C (Chethan Enterprises).
Reference to Agreement No:- EL/Ele/DZ/TEND/AG/000009/22-23
Reference to Work order No:- EE/Ele/DZ/TEND/WO/000020/22-23
Date:16/05/2022
Date 30/05/2022

Certified that the measurements were taken by me on 27/7/22 and recorded of Pages 684520 to 452401 measurement Book No. 4 6846/22-23 and that the work is satisfactorily executed.

For CHETHAN ENTERPRISES
Contractor
Proprietor

Officer-in-charge of work
JUNIOR ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

Certified that the measurement were taken by me on 27/7/22 and found correct. The work is satisfactorily executed

Certified that the quantities of materials shown in column 3 of Account have actually brought to site of the work and the contractor has not previously received any advance on this security of these materials are of and perishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

II Memorandum of Payment

Sub-Division Officer

1) Total value of work done or supplies made as per account within	Present bill	352246=00
2) Deduct amount to be held in reserve being	percent Rs.	
3) " Balance		
4) Deduct Payment:		
a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... Amount adjusted towards cash advance recovery of		
b) Payments Now made: cost store or other material supplied.	IT	3522=00
recovery of amount creditable to this/other work	CESS	3145=00
Amount paid on this bill Cheque / Cash.	SESS	3145=00
	LWC	3522=00
	CBF	352=00
5) Balance being unpaid value of work done held in reserve.	deduct	900 13686=00
6) Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.		
7) Net amount due to or from Contractor unadjustments items.	Cheq amt	338560=00
8) Advance to Contractor for materials brought to site (as detailed) within.		
9) Value of Government materials supplied.		
Total amount adjusted -		

ASST. EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

For CHETHAN ENTERPRISES
Contractor's Signature

Received Rs. ..... (in words).....

by cash and by adjustment of Payment as per memorandum (in final settlement of all demands)

Witness
1
2

Dated Signature of Contractor
Paid by me by Cheque No..... Dated.....
Cash Rs. .....
Dated .....
Initials of Officer making payment

For CHETHAN ENTERPRISES
Stamp
Proprietor

Audited and admitted for Rs. 352246/-
Passed by Cheque for Rs. 338560/-
(Rupees three lakh thirty Eight thousand five hundred Sixty only
Pay adjustment Rs. 13686/-
(For use in the Office)

Accounts Superintendent
Executive Engineer
Exe. Engineer (Ele)
B.B.M.P. Dasarahalli Division

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Sl No	Description of Item	Unit	Previous Measurement		Present Measurement			Total Upto Date		Remarks
			Qty	Cost	Qty	Rate	Amount	Qty	Cost	
	Name Of Work:- Replacemnt of burntout UG cable panel boards and its accessories coming under Dasarahalli Zone ward no 12,13,14,15									
1	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material delivering superior light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70% maximum light intensity should be between 60 degrees to 70 degrees CCT > 5500K IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08 Power Factor >0 9 with mains Surge Protection- Min 5KV along with Over voltage Overload short circuit/ miss-wiring protection Compatible for pole mouting with outer dia of 40mm to 50mm Universal Voltage driver to operate wide voltage range from 100V to 270V 50 60Hz application Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS UL approved MCPCB Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools LED Light fixture with ....W System Power consumption LED Efficiency>130lm/w nominal CRI >75 Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001 2008 Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer &Cree/Nichia/Lumileds/Osram make LED Source LED Streetlight 25watts	Nos			15	1306 00	19590 00	15 00	19590 00	
2	Fabricating supplying and erection of Mtrs long hot dip Galvanized Conical pole with BSEN 10025 grade S355JO steel plate for shaft IS 2062 for base plate with door opening arrangements, including suitable boards. Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom mm, top mm with 3mm thick, suitable base plate and 4Nos of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and153etc ,(excluding foundation) as per drawing appended 3 meters - Top 75mm and bottom 105 mm dia	Each			5	3576 00	17880 00	5 00	17880 00	
3	Supplying and fixing of Hot dip Galvanized M S Bracket suitable for out door luminaries and mounted on Octagonal pole using necessary bolts, nuts etc , complete Single Arm Bracket with 1000mm Standard 40/50MM dia	Each			15	1199 00	17985 00	15 00	17985 00	
4	Supplying of 1 1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1 Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 4 core 16 sqmm	Mtrs			222	107 00	23754 00	222 00	23754 00	
5	Digging of trench of 0 6 m deep x 0 50 mtr wide refilling the trench to the required ground level and consolidating etc complete (As perCivil SR KSRB I-2 P-7) a) In soil (ordinary)	Mtrs			200	54 00	10800 00	200 00	10800 00	
6	Labour charges for laying of 1 1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required In existing trench/duct 6 sqmm to 16 sqmm	Mtrs			222	8 00	1776 00	222 00	1776 00	
7	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694 confirming to latest amendments Materials b)1 5 sqmm	Mtrs			97	15 00	1455 00	97 00	1455 00	
8	Wiring for lighting power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694 confirming to latest 6sqmm	Mtrs			15	50 00	750 00	15 00	750 00	
9	supplying and Fixing of mm dia class A GI pipe bracket up to 2 Mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or GI metal or RCC pole / wall using suitable clamps bolts, and nuts and wiring using suitable capacity wires Using 32mm dia G I Pipe	Each			328	594 00	194832 00	328 00	194832 00	
10	Wiring for lighting/power circuit using one of PVC insulated 1100V grade stranded Aluminium wire single core in open or concealed system of wiring 4 sqmm	Mtr			1271	6 00	7626 00	1271 00	7626 00	
11	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts nuts washers and wiring etc , complete with AC-3 Rating and as per IS-13947 d 60 70Amps	Nos			1	2982 00	2982 00	1 00	2982 00	
12	Supplying and fixing miniature circuit breakers on existing MCB distribution boards usingnecessary fixing materials and C Type curve indicator ON/OFF energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898 6-32 Amps DP	Nos			1	645 00	645 00	1 00	645 00	

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	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat.... with bolts ..ashers etc., and painted with 2 coats of red oxide and then two coats of approved paint a)40X40X6mm						
	Fabricating supplying and mounting MS box made out SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete 16SWG	5	181.00	905.00	5.00	905.00	
	Supplying and fixing hylum plastic sheet 3mm thick with necessary nitches for fixing switches, regulators etc and fixing on existing wood or metal box using N.F. screws.	34550	0.25	8637.50	34550.00	8637.50	
	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts bolts and washers 63Amps	9650	0.16	1544.00	9650.00	1544.00	
	Supplying and fixing Microprocessor Based Astronomical timer Switch with using necessary nuts and washers	3	161.00	483.00	3.00	483.00	
	Total Rs	1	2861.03	2861.03	1.00	2861.03	
	Add Gst 12%			314505.53		314505.53	
	Total Rs			37740.66		37740.6636	
				352246.19		352246.19	

Certified that the work has been executed satisfactorily.

JUNIOR ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

ASST. EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

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